

FIG. 1

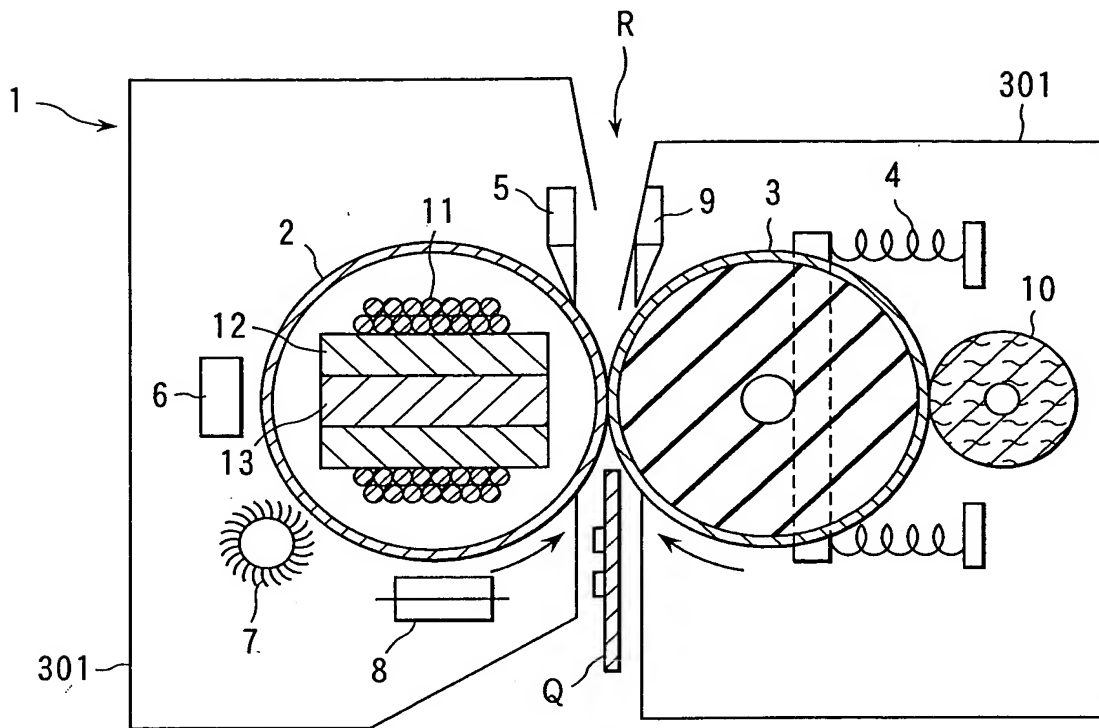


FIG. 2

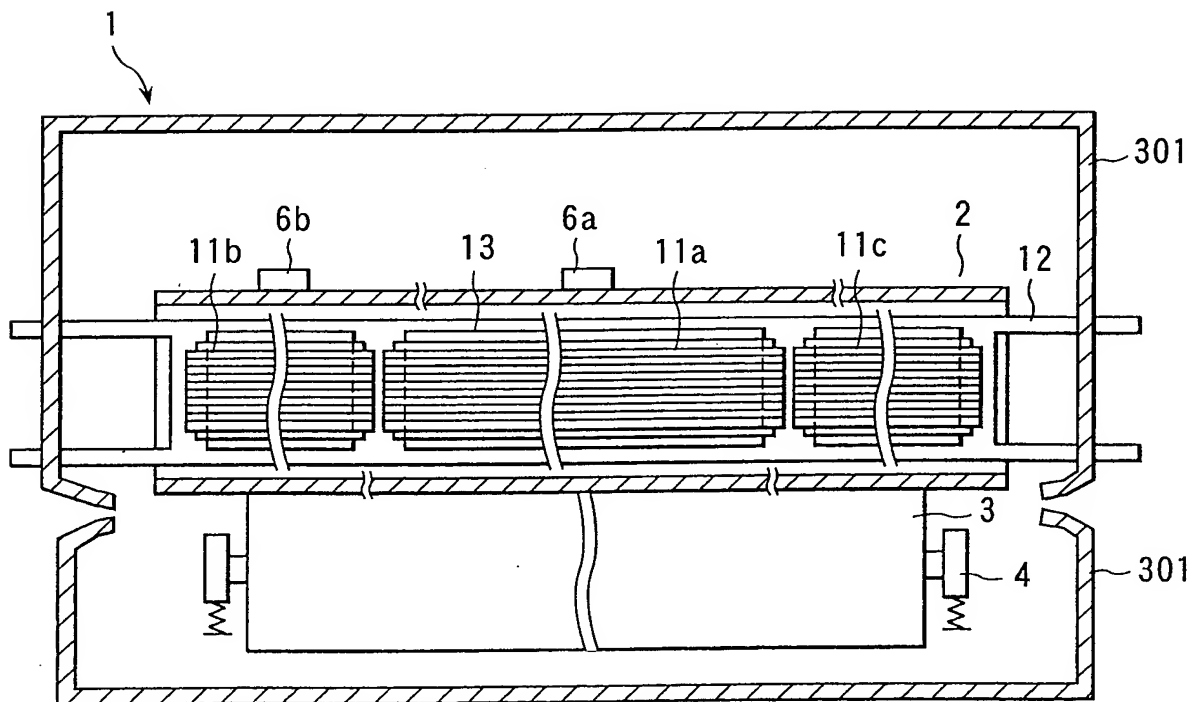
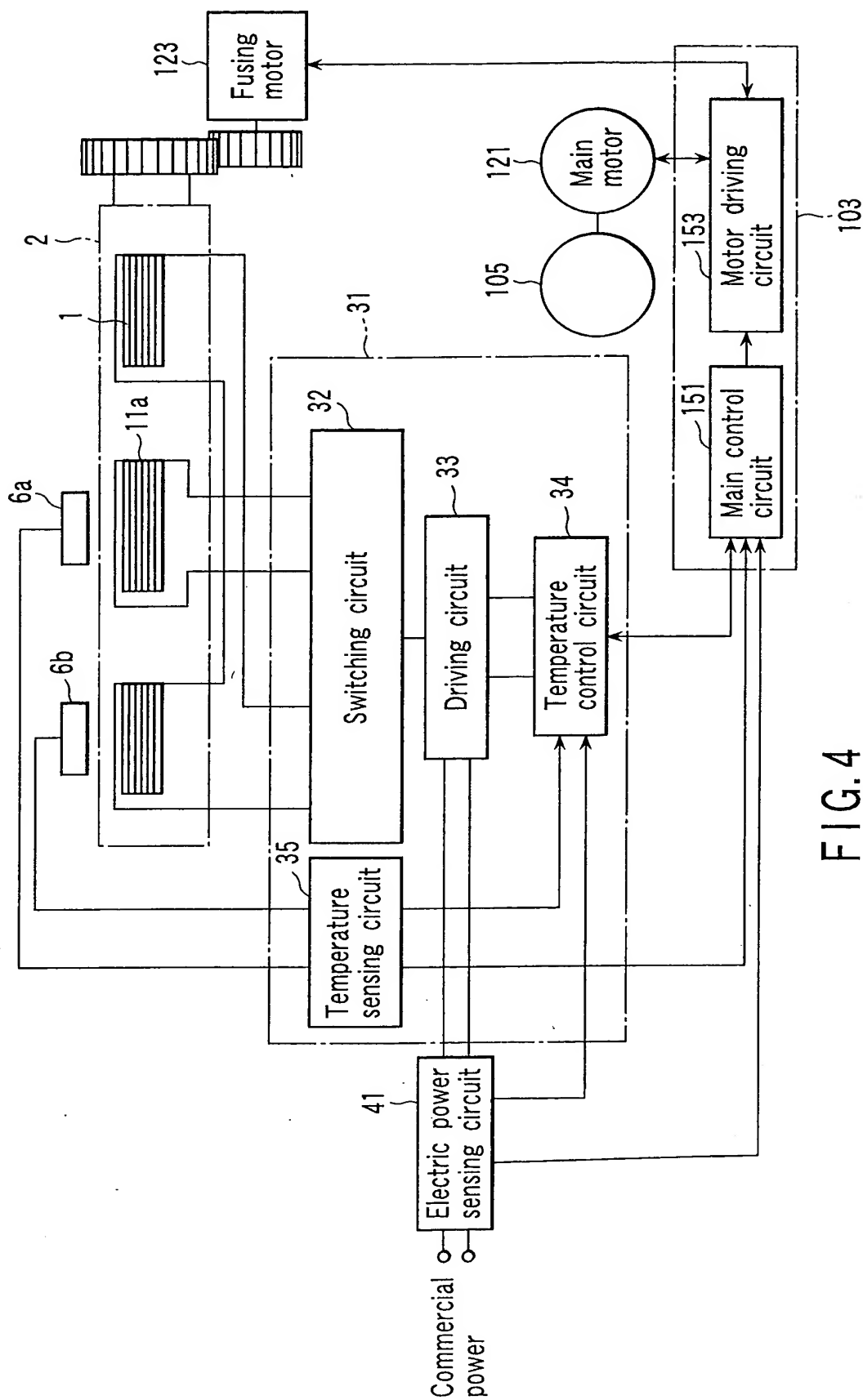


FIG. 3





Skin depth of each metal material at the frequency used [μm]

| | Copper | Aluminium | Iron | Nickel |
|--------|--------|-----------|-------|--------|
| 20kHz | 14.78 | 17.80 | 35.60 | 29.07 |
| 40kHz | 10.45 | 12.59 | 25.17 | 20.55 |
| 60kHz | 8.53 | 10.28 | 20.55 | 16.78 |
| 80kHz | 7.39 | 8.90 | 17.80 | 14.53 |
| 100kHz | 6.61 | 7.96 | 15.92 | 13.00 |

FIG. 7

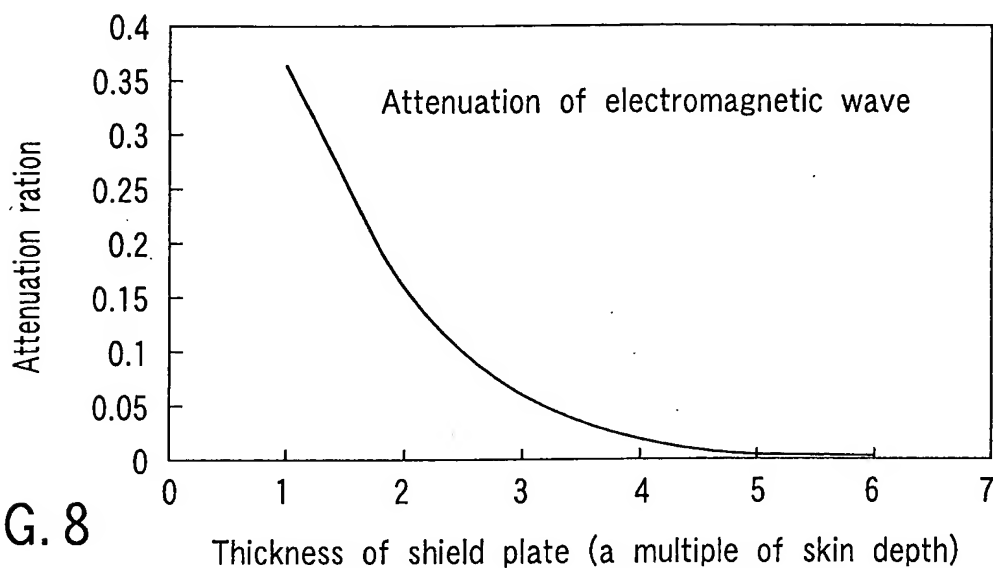


FIG. 8

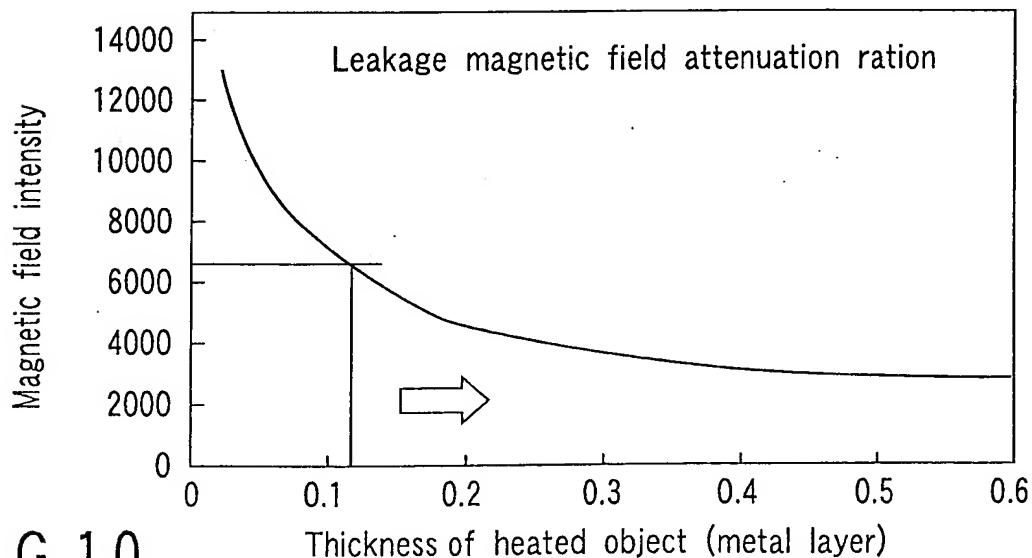


FIG. 10

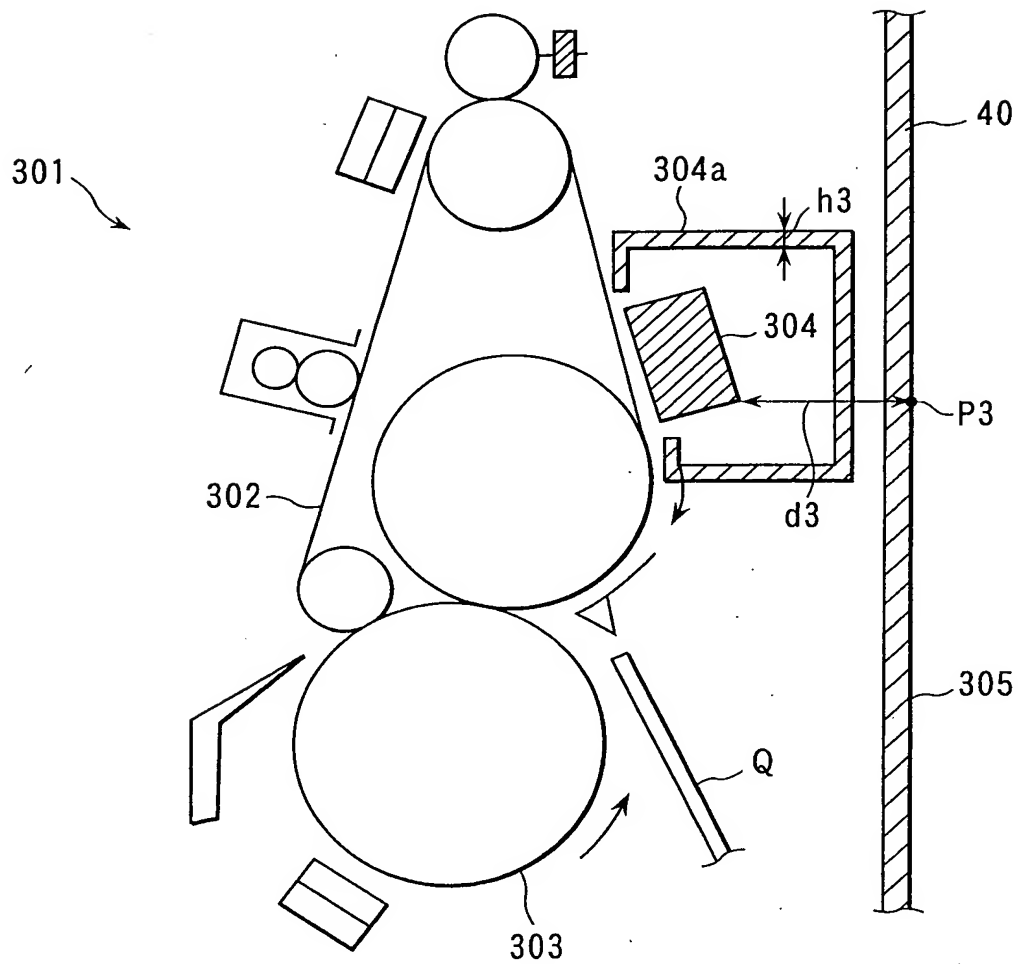


FIG. 9